

Tentative Schedule of Lecture Topics

Properties of Gases
Properties of Liquids and Solids

Zeroth Law of Thermodynamics & Thermometry
First Law of Thermodynamics
Thermochemistry
Second Law of Thermodynamics & Entropy
Third Law of Thermodynamics

Legendre Transforms & the Gibbs Function
Maxwell Relations
Equilibrium Conditions
Partial Molar Quantities

Solutions
Ideal Solutions & Colligative Properties
Non-Ideal Solutions
Ionic Solutions

Chemical Equilibrium
Electrochemistry
Phase Equilibria
Gravitational, Electric, Magnetic, Surface Work

Kinetics